10724731

~~10/458135~~

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TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2		"Ask CAS" for self-help around the clock
NEWS 3	May 12	EXTEND option available in structure searching
NEWS 4	May 12	Polymer links for the POLYLINK command completed in REGISTRY
NEWS 5	May 27	New UPM (Update Code Maximum) field for more efficient patent SDIs in CAplus
NEWS 6	May 27	CAplus super roles and document types searchable in REGISTRY
NEWS 7	Jun 28	Additional enzyme-catalyzed reactions added to CASREACT
NEWS 8	Jun 28	ANTE, AQUALINE, BIOENG, CIVILENG, ENVIROENG, MECHENG, and WATER from CSA now available on STN(R)
NEWS 9	Jul 12	BEILSTEIN enhanced with new display and select options, resulting in a closer connection to BABS
NEWS 10	Jul 30	BEILSTEIN on STN workshop to be held August 24 in conjunction with the 228th ACS National Meeting
NEWS 11	AUG 02	IFIPAT/IFIUDB/IFICDB reloaded with new search and display fields
NEWS 12	AUG 02	CAplus and CA patent records enhanced with European and Japan Patent Office Classifications
NEWS 13	AUG 02	STN User Update to be held August 22 in conjunction with the 228th ACS National Meeting
NEWS 14	AUG 02	The Analysis Edition of STN Express with Discover! (Version 7.01 for Windows) now available
NEWS 15	AUG 04	Pricing for the Save Answers for SciFinder Wizard within STN Express with Discover! will change September 1, 2004
NEWS 16	AUG 27	BIOCOMMERCE: Changes and enhancements to content coverage
NEWS 17	AUG 27	BIOTECHABS/BIOTECHDS: Two new display fields added for legal status data from INPADOC
NEWS 18	SEP 01	INPADOC: New family current-awareness alert (SDI) available
NEWS 19	SEP 01	New pricing for the Save Answers for SciFinder Wizard within STN Express with Discover!
NEWS 20	SEP 01	New display format, HITSTR, available in WPIDS/WPINDEX/WPIX
NEWS 21	SEP 14	STN Patent Forum to be held October 13, 2004, in Iselin, NJ

NEWS EXPRESS	JULY 30 CURRENT WINDOWS VERSION IS V7.01, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2004
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that

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* * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 12:38:39 ON 16 SEP 2004

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 12:39:09 ON 16 SEP 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 14 SEP 2004 HIGHEST RN 744786-72-9
DICTIONARY FILE UPDATES: 14 SEP 2004 HIGHEST RN 744786-72-9

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

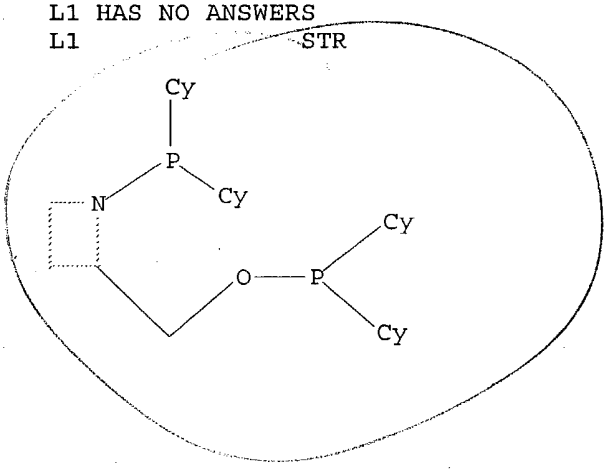
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Program Files\Stnexp\Queries\10724731C.str

L1 STRUCTURE UPLOADED

=> d L1
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

```
=> s L1
SAMPLE SEARCH INITIATED 12:39:43 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      0 TO ITERATE

100.0% PROCESSED       0 ITERATIONS                              0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE   **COMPLETE**
                        BATCH    **COMPLETE**
PROJECTED ITERATIONS:             0 TO         0
PROJECTED ANSWERS:                0 TO         0

L2            0 SEA SSS SAM L1

=> file caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.42       0.63

FILE 'CAPLUS' ENTERED AT 12:39:57 ON 16 SEP 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)
```



```
FILE COVERS 1907 - 16 Sep 2004  VOL 141 ISS 12
FILE LAST UPDATED: 15 Sep 2004  (20040915/ED)
```

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> s L1
   REG1stRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.



SAMPLE SEARCH INITIATED 12:40:03 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      0 TO ITERATE

100.0% PROCESSED       0 ITERATIONS                              0 ANSWERS
```

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 0 TO 0
PROJECTED ANSWERS: 0 TO 0

L3 0 SEA SSS SAM L1

L4 0 L3

=> set extend on
SET COMMAND COMPLETED

=> s L1 full
REG1stRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

FULL SEARCH INITIATED 12:41:34 FILE 'REGISTRY'

L5 6 SEA SSS FUL L1 EXTEND

CANDIDATE STRUCTURE SEARCH COMPLETED - 6 TO ITERATE

100.0% PROCESSED 6 ITERATIONS 5 ANSWERS
SEARCH TIME: 00.00.01

L6 5 SEA SSS FUL L1

L7 3 L6

=> d 1-3 ibib abs hitstr

L7 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:714165 CAPLUS
DOCUMENT NUMBER: 137:232770
TITLE: Preparation of transition metal complexes containing chiral phosphine ligands for use as asymmetric hydrogenation catalysts
INVENTOR(S): Hassila, Heikki; Higashii, Takayuki
PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan
SOURCE: Eur. Pat. Appl., 15 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

EP 1241174	A1	20020918	EP 2002-5894	20020314
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2002338589	A2	20021127	JP 2002-64944	20020311
US 2003191324	A1	20031009	US 2002-97009	20020314
US 6762306	B2	20040713		
US 2004110965	A1	20040610	US 2003-724731	20031202

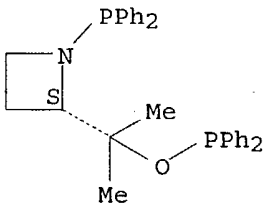
PRIORITY APPLN. INFO.: JP 2001-71784 A 20010314
OTHER SOURCE(S): MARPAT 137:232770

AB Chiral phosphines [e.g., (S)-N,O-bis(diphenylphosphino)-α,α-dimethyl-2-azetidine methanol, (I)] and their corresponding transition metal catalytic complexes were prepared For example, (S)-α,α-dimethyl-2-azetidine methanol was reacted with chlorodiphenylphosphine to give %81 I, which is further reacted with [Rh(COD)2]OTf to give the corresponding rhodium cyclooctadiene complex. In the presence of the rhodium complex, α-acetylamino-4-chlorostyrene is hydrogenated to give %90 N-acetyl-(4-chloro)-α-phenethylamine.

IT **459426-40-5P 459426-43-8P**
RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of transition metal complexes containing chiral phosphine ligands
for use as asym. hydrogenation catalysts)

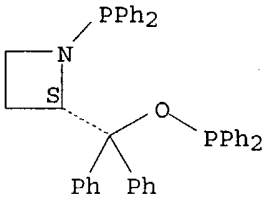
RN 459426-40-5 CAPLUS
CN Phosphinous acid, diphenyl-, 1-[(2S)-1-(diphenylphosphino)-2-azetidinyl]-1-methylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 459426-43-8 CAPLUS
CN Phosphinous acid, diphenyl-, [(2S)-1-(diphenylphosphino)-2-azetidinyl]diphenylmethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2000:820360 CAPLUS
DOCUMENT NUMBER: 134:131628

TITLE: Free and Cr(CO)3-Complexed Aminophosphine Phosphinite Ligands for Highly Enantioselective Hydrogenation of α-Functionalized Ketones

AUTHOR(S): Pasquier, Corinne; Naili, Said; Mortreux, Andre; Agbossou, Francine; Pelinski, Lydie; Brocard, Jacques; Eilers, Juergen; Reiners, Iris; Peper, Viola; Martens, Juergen

CORPORATE SOURCE: Laboratoire de Catalyse de Lille Groupe de Chimie Organique Appliquee, Ecole Nationale Superieure de Chimie de Lille, Villeneuve d'Ascq, 59652, Fr.

SOURCE: Organometallics (2000), 19(26), 5723-5732
CODEN: ORGND7; ISSN: 0276-7333

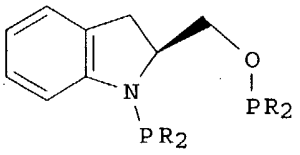
PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 134:131628

GI



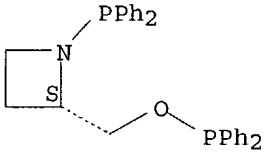
I

AB The synthesis and characterization of a new series of aryl- and cycloalkyl-substituted aminophosphine phosphinites, e.g. I (R = cyclopentyl), obtained from the reaction of the three precursors (S)-2-hydroxymethylazetidine, (S)-3-hydroxymethyl-1,2,3,4-tetrahydroisoquinoline, and (S)-2-hydroxymethylindoline and chlorophosphines is described. The aromatic ring in (S)-2-hydroxymethylindoline has allowed the synthesis and isolation of tricarbonyl chromium complexed amino alcs., which were similarly converted into the corresponding aminophosphine phosphinites, presenting a stereogenic center and a planar chirality. Ligand I ((S)-Cp,Cp-IndoNOP) revealed an unprecedented 31P NMR fluxional behavior related to a rotation inhibition around the P-heteroatom (N and O) bonds. These new AMPP ligands were used in the enantioselective hydrogenation of various α-functionalized ketones, i.e., dihydro-4,4-dimethyl-2,3-furandione 14, N-benzyl benzoylformamide 15, Et pyruvate 16, and 2-(N,N-dimethyl)aminoacetophenone hydrochloride 17. The stereoelectronic effects generated by the presence of the tricarbonyl chromium moiety onto the hydrogenations have been assessed. The beneficial effect of the matching chiralities in ligand associated with the use of the most appropriate nonchiral ligand Cl has resulted in a win of 13% of ee for the rhodium-based hydrogenation of 15. While using the most suitable new chiral AMPP ligand from this study, the four above-mentioned substrates were converted into the corresponding optically active alcs. in >99% ee (14/I), >99% ee (15/I), 87% ee (16/I), and >99% ee (17/I), resp.

IT **216592-61-9P 216592-67-5P 321744-12-1P**
RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(preparation of free and chromium-complexed aminophosphine phosphinite ligands for highly enantioselective hydrogenation of

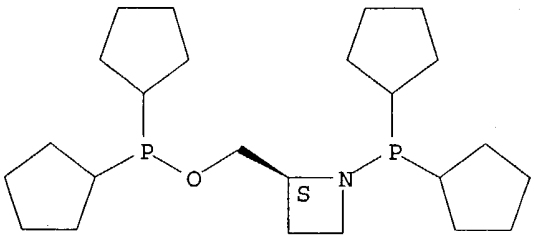
alpha-functionalized ketones)
RN 216592-61-9 CAPLUS
CN Phosphinous acid, diphenyl-, [(2S)-1-(diphenylphosphino)-2-azetidinyl]methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



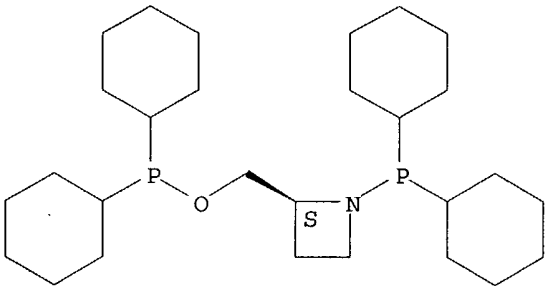
RN 216592-67-5 CAPLUS
CN Phosphinous acid, dicyclopentyl-, [(2S)-1-(dicyclopentylphosphino)-2-azetidinyl]methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 321744-12-1 CAPLUS
CN Phosphinous acid, dicyclohexyl-, [(2S)-1-(dicyclohexylphosphino)-2-azetidinyl]methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 84 THERE ARE 84 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1998:682695 CAPLUS
DOCUMENT NUMBER: 130:38471
TITLE: Enantioselective hydrogenation of functionalized ketones. Synthesis and application of new chiral aminophosphine-phosphinite ligands

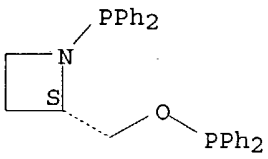
AUTHOR(S): Pasquier, Corinne; Eilers, Juergen; Reiners, Iris; Martens, Juergen; Mortreux, Andre; Agbossou, Francine
CORPORATE SOURCE: Laboratoire Catalyse Heterogene Homogene, Groupe Chimie Organique Appliquee ENSC Lille, Universite Sciences Technologies Lille, Villeneuve d'Ascq, F-59652, Fr.
SOURCE: Synlett (1998), (10), 1162-1164
CODEN: SYNLES; ISSN: 0936-5214
PUBLISHER: Georg Thieme Verlag
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 130:38471

AB Chiral aminophosphine-phosphinites were synthesized and applied successfully in the enantioselective hydrogenation of dihydro-4,4-dimethyl-2,3-furandione, PhCOCONHCH2Ph, and Et pyruvate providing the corresponding hydroxy products in ≤ 97, 95, and 80% ee, resp.

IT **216592-61-9P 216592-67-5P**
RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(preparation of chiral aminophosphine-phosphinite ligands and application in asym. hydrogenation of ketones)

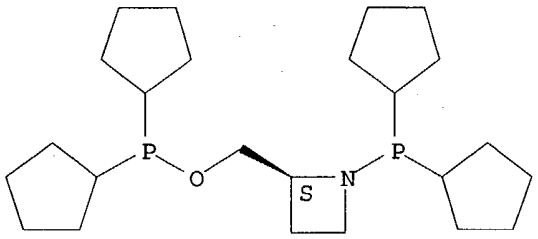
RN 216592-61-9 CAPLUS
CN Phosphinous acid, diphenyl-, [(2S)-1-(diphenylphosphino)-2-azetidinyl]methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 216592-67-5 CAPLUS
CN Phosphinous acid, dicyclopentyl-, [(2S)-1-(dicyclopentylphosphino)-2-azetidinyl]methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT